



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON, DC 20350-2000

IN REPLY REFER TO
OPNAVINST 3501.12B
OP-375
05 JAN 1988

OPNAV INSTRUCTION 3501.12B

From: Chief of Naval Operations

Subj: PROJECTED OPERATIONAL ENVIRONMENT (POE) AND REQUIRED
OPERATIONAL CAPABILITIES (ROC) FOR THE MARS (AFS 1) CLASS
COMBAT STORES SHIP

Ref: (a) OPNAVINST C3501.2G (NOTAL)

Encl: (1) Projected Operational Environment (POE) for the AFS 1
Class Ships
(2) Required Operational Capabilities (ROC) for the AFS 1
Class Ships

1. Purpose. To issue a complete revision to the Projected
Operational Environment (POE) and the Required Operational
Capabilities (ROC) for the MARS (AFS 1) class combat stores
ship.

2. Cancellation. OPNAVINST 3501.12A

3. Discussion. Enclosures (1) and (2) have been prepared per
reference (a). The ROC and POE provide the necessary details to
describe the mission areas and operational capabilities for
which the MARS (AFS 1) class combat stores ship was designed and
is organized. Together they establish manpower requirements for
developing the Ship's Manning Documents (SMD).

4. Information. The Chief of Naval Operations has approved the
AFS 1 class ROC and POE, and initial distribution has been made
to commands concerned.

5. Action. Fleet Commanders in Chief are requested to periodi-
cally review enclosures (1) and (2) and recommend to the Chief
of Naval Operations (Attn: OP-375) changes as may be appropri-
ate when capability of the class is significantly altered by
introduction or deletion of systems.

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(Surface Warfare)

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OPNAVINST 3501.12B

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PROJECTED OPERATIONAL ENVIRONMENT
FOR AFS 1 CLASS SHIPS

1. At sea in wartime.
2. Capable of performing all offensive and defensive functions simultaneously while in Condition I.
3. Capable of performing other functions which are not required to be performed simultaneously.
4. Continuous Readiness Condition III at sea. No armament is manned during underway replenishment.
5. Conduct underway replenishment in support of operating forces by simultaneously providing refrigerated stores, dry provisions, technical (including aviation) spares, general stores, fleet freight, mail, personnel and other items from five station (two starboard and three port) for periods normally not to exceed 32 hours per week. For purposes of SMD development, UNREP hours are considered to commence with "first line over" and terminate with "last line clear." All other workload such as rigging, pre-staging of cargo, safety briefings, etc., will be counted under Utility Tasks and Evolutions (UT&E).
6. Conduct vertical replenishment in support of operating forces by providing refrigerated stores, dry provisions, technical (including aviation) spares, general stores, fleet freight, mail, personnel and other items from other units or temporarily assigned by periods normally not to exceed 32 hours per week. This includes the time from the setting of flight quarters to securing from flight quarters.
7. Capable of performing all maintenance for which ship's company is responsible.
8. The USS WHITE PLAINS (AFS 4), USS SAN DIEGO (AFS 6) and USS SAN JOSE (AFS 7) contain automated propulsion systems (APS).
9. Capable of supporting an embarked Underway Replenishment Group staff subject to constraints imposed by existing installed shipboard communications equipment and berthing.
10. Primary and secondary mission areas:

AAW	ASU	ASW	CCC	ELW	FSU	INT	LOG	MIW	MOB	NCO
(F) (U)	(F) (U)		(F) (U)	(F) (U)					(F) (U)	
S	S	S	P	S	S	S	P	S	P	S

Enclosure (1)

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REQUIRED OPERATIONAL CAPABILITIES
FOR THE AFS 1 CLASS COMBAT STORES SHIP

	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
a. <u>ANTI-AIR WARFARE (AAW)</u>						
AAW 6 - Detect, identify and track air targets.						
AAW 6.2 Recognize by sight friendly and enemy aircraft which may be encountered in expected operating areas.	F	F	F	F		
AAW 9 - Engage airborne threats using surface-to-air armament.						
AAW 9.4 Engage low/medium/high altitude airborne threats with gunfire.	F	P				
III(P) Only one 3"/50 mount, without magazine, manned. CIWs remote panel manned.						
AAW 9.6 Engage airborne threats utilizing softkill weapons systems (i.e., chaff/decoys).	F	F	P	P		
R(P), IV(P) Chaff launcher activated by EW on watch.						
b. <u>ANTI-SURFACE SHIP WARFARE (ASU)</u>						
ASU 1 - Engage surface threats with antisurface armaments.						
ASU 1.5 Engage surface ships with intermediate caliber gunfire.	F	P				
III(P) Only one 3"/50 mount, without magazine, manned.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>	
ASU 1.6 Engage surface ships with minor caliber gunfire.	F	P					
III(P) Manned by off-watch personnel.							
ASU 4 - Detect, identify, localize and track surface ship targets.							
ASU 4.1 Detect, localize and track surface contacts with radar.	F	F	F	F			
ASU 4.4 Detect and track surface contacts visually.	F	F	F	F			
ASU 4.6 Detect and track surface contacts by Electronic Support Measures (ESM).	F	F	F	F			
ASU 4.7 Identify surface contacts.	F	F	F	F			
ASU 6 - Disengage, evade and avoid surface attack.							
ASU 6.1 Employ countermeasures.	F	F					
ASU 6.2 Employ evasion techniques.	F	F					
c. <u>ANTI-SUBMARINE WARFARE (ASW)</u>							
ASW 10 - Disengage, evade and avoid submarine attack by employing torpedo countermeasures and evasion techniques.	F	F					
d. <u>COMMAND AND CONTROL AND COMMUNICATIONS (CCC)</u>							
CCC 1 - Provide command and control facilities for a task organization commander and staff.							
CCC 1.1 Adequately support embarked Warfare Commander or Coordinator (other than own unit CO).	F	F	F	F	F		

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
CCC 1.6 Provide a Helicopter Direction Center (HDC) with command and control facilities for the control and direction of helicopters operating from the ship.		F	F	F	F	
CCC 1.13 Provide communications support for embarked Warfare Commander or Coordinator.	F	F	F	F	F	
CCC 2 - Coordinate and control the operations of the task organization or functional force to carry out assigned missions.						
CCC 2.6 Function as force or sector OTC/CWC (or alternate) to coordinate and control Battle Group/Task Force operations.	F	F	F	F		
CCC 2.8 Function as on-scene commander for a SAR operation.	F	F		F		
CCC 2.15 Function as one or more of the following coordinators for force or sector. (1) Air Element Coordinator (AREC)	F	F	F	F	F	
CCC 3 - Provide own unit's command and control functions.						
CCC 3.1 Maintain a Combat Information Center (CIC) that is capable of collecting, processing, displaying, evaluating and disseminating tactical information.	F	F	F	F		

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
CCC 3.3 Carry out emergency destruction of classified matter and equipment rapidly and efficiently. III(P), R(P), IV(P), IP(P) Augmented by special detail.	F	P	P	P	P	E
CCC 3.4 Employ IFF/SIF including secure IFF Mode 4.	F	F	F	F		
CCC 3.6 Maintain a Combat Information Center (CIC) that is capable of supporting a Tactical Action Officer (TAO).	F	F				
CCC 4 - Maintain NTDS or data link capability.						
CCC 4.7 Receive Link 14 information.	F	F	F	F		
CCC 6 - Provide communications for own unit.						
CCC 6.1 Provide tactical voice communications.	F	F	F	F		
CCC 6.2 Maintain visual communications. III(P), IV(P) Work one one contact and maintain watch simultaneously. IP(P) Capability reduced due personnel ashore.	F	P	F	P	P	A
CCC 6.3 Maintain multichannel cryptographically covered teletype receive circuits.	F	F	F	F	P	A

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
IP(P) Augmented by off-watch personnel.						
CCC 6.4 Maintain uncovered RATT/CW communications.	F	F	F	F	P	A
IP(P) Augmented by off-watch personnel.						
CCC 6.5 Maintain full duplex cryptographically covered HF teletype circuits.	F	F	F	F	P	A
IP(P) Augmented by off-watch personnel.						
CCC 6.6 Process message traffic.	F	F	F	F	F	
CCC 6.9 Maintain multichannel cryptographically covered teletype send and receive circuits.	F	F	F	F	P	A
IP(P) Augmented by off-watch personnel.						
CCC 6.10 Maintain voice/teletype/computer data cryptographically covered satellite communication circuits.	F	F	F	F	P	A
IP(P) May require augmentation by off-watch personnel.						
CCC 6.12 Maintain internal communications systems.	F	F	F	F	F	A
CCC 6.18 Provide tactical, secure voice communications.	F	F	F	F	F	
CCC 7 - Implement Operations Security (OPSEC) measures and conduct military deception actions.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>	
CCC 7.2 Execute OPSEC measures.	F	F					
CCC 7.4 Execute Navy operational deception actions using tactics, operations, exercises or physical means.	F	F					
CCC 9 - Relay naval communications.							
CCC 9.1 Relay visual communications.	F	P	F	P	P	A	
III(P), IV(P) Work one contact and maintain watch simultaneously.							
IP(P) Capability reduced due personnel ashore.							
CCC 9.3 Relay electronic communications.	F	F	F	F	P		
IP(P) Capability reduced due personnel ashore.							

e. ELECTRONIC WARFARE (ELW)

ELW 1 - Conduct Electronic Warfare Support Measures (ESM) operations.

ELW 1.1 Conduct search for, and intercept of threat related communication and/or non-communication signals.	F	F	P	F			
R(P) Single man operation.							
ELW 1.2 Provide identity of threat weapons/C3 systems signals.	F	F	P	F			
R(P) Single man operation.							
ELW 1.3 Provide identity of threat platforms communication and	F	F	P	F			

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		<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
	noncommunication signal sources.						
	R(P) Single man operation.						
ELW 1.4	Provide location (or targeting information) of threat weapons/C3 systems/platforms/signal sources.	F	F	P	F		
	R(P) Single man operation.						
ELW 1.5	Provide timely threat alert for actions involving Electronic Countermeasures (ECM), Electronic Counter-Countermeasures (ECCM), Emission Control (EMCON), avoidance, and targeting.	F	F	P	F		
	R(P) Single man operation.						
ELW 4	- Conduct Electromagnetic Acoustic Emission Control (EMCON) operations.						
ELW 4.1	Implement appropriate/directed electromagnetic/acoustic EMCON condition.	F	F		F		
ELW 4.2	Transition rapidly from one EMCON condition to another.	F	F		F		
ELW 4.3	Monitor own unit compliance with EMCON condition in effect.	F	F		F	P	
	IP(P) Capability reduced due personnel ashore.						
f.	<u>FLEET SUPPORT OPERATIONS (FSO)</u>						
FSO 3	- Provide support services to other units.						
FSO 3.5	Support helicopters (when assigned).	P	P	P	P	P	

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
FSO 3.13 Provide motion picture exchange services.			F		F	
FSO 5 - Conduct towing/search/salvage/rescue operations.						
FSO 5.3 Conduct rescue operations.	P	F		F		E
I(P) Secure personnel for special detail.						
FSO 6 - Support/conduct Search And Rescue (SAR) operations in a combat/noncombat environment.						
FSO 6.4 Recover man overboard.	P	P	P	P	P	E
I(P), III(P), R(P), IV(P), IP(P) Augmented by special detail.						
FSO 6.6 Conduct search and rescue operations (including operations involving submarine disasters/rescues).	F	F		F		
FSO 6.7 Conduct general surveillance.	F	F		F		
FSO 6.9 Report situation assessment.	F	F		F		
FSO 6.10 Coordinate SAR operations.	F	F		F		
FSO 6.11 Conduct multi-unit SAR operations.	F	F		F		
FSO 9 - Provide routine health care.						
FSO 9.1 Conduct daily sick call.		F		F	F	
FSO 9.2 Conduct physical examinations.		F		F	F	

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
FSO 9.3 Conduct lab diagnostic services.		F		F	F	
FSO 9.4 Conduct ward care.	F	F	F	F	F	
FSO 9.5 Conduct sanitation and safety inspections and provide preventive medicine instruction.				F	F	
FSO 9.6 Conduct appropriate industrial hygiene/environment health monitoring and occupational safety and health training.				F	F	
FSO 9.9 Conduct associated administrative services.				F	F	
FSO 9.10 Conduct on site emergency medical treatment during hazardous evolutions including flight quarters, underway replenishment/refueling, and amphibious assault boat operations.	F	F	F	F	F	
FSO 10 - Provide first aid assistance.						
FSO 10.1 Identify, equip and maintain appropriate first aid spaces.		F		F	F	
FSO 10.2 Train assigned personnel in first aid, self and buddy aid procedures.		F		F	F	
FSO 11 - Provide triage.						
FSO 11.1 Identify, equip and maintain suitable triage spaces.	F	F	F	F	F	

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
FSO 11.2 Train assigned medical/dental personnel in triage care.				F	F	
FSO 11.3 Provide for augmentation by specialized personnel and equipment.	P	P	P	P	P	
I(P), R(P), III(P), IV(P), IP(P) Limited to available space.						
FSO 12 - Provide resuscitation.						
FSO 12.1 Identify, equip and maintain suitable resuscitation spaces.	F	F	F	F	F	
FSO 12.2 Train assigned medical/dental personnel in resuscitation.				F	F	
FSO 13 - Provide definitive care.						
FSO 13.1 Provide emergency minor surgery by hospitalman. Identify, equip and maintain suitable operating space, utilizing local anesthesia, appropriate sterilizer, laundry, supply and medical instrument support spaces.	F	F		F	F	
FSO 13.3 Provide for recovery beds.	F	F	F	F	F	
FSO 13.4 Provide for augmentation by specialized personnel and equipment.	P	P		P	P	
I(P), III(P), IV(P), IP(P) Limited to available space.						
FSO 14 - Provide medical regulation of casualties.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
FSO 14.4 Provide for transfer/ evacuation of patients.	P	P	P	P	P	E
I(P), III(P), R(P), IV(P), IP(P) Helo embarked.						
FSO 15 - Provide suitable convalescent ward space.						
FSO 15.1 Provide suitable convalescent ward service.				P		
IV(P) Limited facilities.						
FSO 15.2 Provide for augmentation by specialized personnel and equipment.				P		
IV(P) Limited to available space.						
FSO 20 - Provide fleet training services.						
FSO 20.1 Act as target for submarines.	F	F	F	F		
FSO 20.6 Act as delivery or receiving ship for underway replenishment training.			F			
FSO 20.10 Provide technical guidance and assistance to fleet units in cargo handling and underway replenishment operations.			F		F	
g. <u>INTELLIGENCE (INT)</u>						
INT 1 - Support/conduct intelligence collection.						
INT 1.1 Support/conduct electronic intelligence information collection.	F	F		F		

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>	
INT 1.5 Support/conduct radar intelligence information collection.	F	P		P	P	E	
III(P), IV(P), IP(P) Augment with off-watch personnel.							
INT 1.11 Maintain radar scope photography capability.	F	P		P	P	E	
III(P), IV(P), IP(P) Augment with off-watch personnel.							
INT 2 - Provide intelligence.							
INT 2.1 Maintain intelligence summary plots on air, surface, and subsurface activities.	F	F		F	F		
INT 2.2 Evaluate and disseminate intelligence information.	F	F		F	F		
INT 3 - Conduct surveillance and reconnaissance.							
INT 3.2 Conduct overt surveillance and reconnaissance operations.	F	F		F			
INT 4 - Provide the capability to conduct ocean surveillance operations against targets of interest.							
INT 4.1 Provide the capability to detect and locate targets of interest.	F	F	F	F			
INT 4.2 Provide the capability to classify and identify targets of interest.	F	F	F	F			

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF</u>	<u>W</u>
INT 4.3 Provide the capability to track targets of interest.	F	F	F	F			
h. <u>LOGISTICS (LOG)</u>							
LOG 1 - Conduct underway replenishment.							
LOG 1.3 Transfer cargo underway.			F				
LOG 1.4 Transfer cargo underway by STREAM.			F				
LOG 1.7 Transfer DFM underway.			F				
LOG 1.8 Transfer DFM underway by STREAM.			F				
LOG 1.11 Provide vertical replenishment underway.			F				
LOG 2 - Transfer/receive cargo and personnel.							
LOG 2.2 Provide facilities and personnel for material, mail, and passenger handling.		F	F	F	F		
LOG 2.3 Act as a transient personnel receiving station.					F		
LOG 2.4 Transfer and receive personnel by helo. I(P), III(P), IV(P) IP(P) Requires setting special detail.	P	P	F	P	P		E
LOG 2.5 Transfer personnel and light freight by high-line.			F				
LOG 3 - Provide sealift for cargo and personnel.							

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
LOG 3.1 Provide stowage and berthing spaces for equipment and personnel during transit.	F	F	F	F	F	
LOG 3.2 Provide small boat services for transfer of personnel, cargo, weapons, provisions and supplies.					F	
LOG 4 - Support ships and aircraft in supplies, ordnance and other services.						
LOG 4.1 Provide fuel and lubricating oil to another unit.			P		F	
R(P) Limited fuel transfer capability						
LOG 4.4 Provide another unit with:						
(1) Steam					F	
(2) Electrical power					F	
(3) Bottled Oxygen			F		F	
(4) Bottled Nitrogen			F		F	
(5) Fresh water			F		F	
(6) Feed water			F		F	
i. <u>MINE WARFARE (MIW)</u>						
MIW 6 - Conduct magnetic silencing (degaussing, deperming, etc.)						
MIW 6.7 Maintain magnetic signature limits.	F	F	F	F		
j. <u>MOBILITY (MOB)</u>						
MOB 1 - Steam to designed capability and in the most fuel efficient manner.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
MOB 1.1 Steam at full power.	F	F	F	F		
MOB 3 - Prevent and control damage.						
MOB 3.1 Control fire, flooding, electrical, structural, propulsion and hull casualties.	F	P	P	P	P	A
<p>III(P), R(P), IV(P) Watch station personnel and sounding/ security watch provide damage control surveillance until Condition I is set.</p> <p>IP(P) Duty damage control party.</p>						
MOB 3.2 Counter and control NBC contaminants/agents.	F	P	P	P	P	E
<p>III(P), R(P), IV(P), Reduced capability only until Condition I set.</p> <p>IP(P) Reduced capability due personnel ashore.</p>						
MOB 3.3 Maintain security against unfriendly acts.	F	F	F	F	F	
MOB 3.5 Provide damage control security/surveillance.	F	F	F	F	F	
MOB 3.8 Provide emergency breathing devices in accordance with ship's allowance.	F	F	F	F	F	
MOB 5 - Maneuver in formation.	F	F	F	F		
MOB 7 - Perform seamanship, airman-ship and navigation tasks.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
MOB 7.1 Navigate under all conditions of geographic location, weather, and visibility. III(P), R(P), IV(P) Augmented by special detail.	F	P	P	P		E
MOB 7.2 Conduct precision anchoring. I(P) May require securing special team from Condition I. III(P), IV(P) Augmented by special detail.	P	P		P		E
MOB 7.3 Get underway, moor, anchor, and sortie with duty section in a safe manner. IP(P) Will require recall of personnel if more than four section liberty requirements are met.					P	A
MOB 7.6 Abandon/scuttle ship rapidly. R(P), III(P), IV(P) Augmented by special detail.	F	P	P	P		E
MOB 7.7 Provide lifeboat/raft capacity in accordance with unit's allowance.	F	F	F	F	F	
MOB 7.8 Tow or be towed (Towing engine not required). I(P) Will require securing special team from Condition I.	P	P		P		E

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
III(P), IV(P) Augmented by special detail.						
MOB 7.9 Operate day and night and under all weather conditions.	F	F	F	F		
MOB 7.10 Conduct undetected transits.	F	F	F	F		
MOB 10 - Replenish at sea.						
MOB 10.1 Receive vertical replenishment.		P	F	P	P	E
III(P), IV(P), IP(P) Augmented by special detail.						
MOB 10.2 Receive fuel while underway (alongside method).			F			
MOB 10.3 Receive munitions and provisions while underway.			F			
MOB 10.4 Receive potable and/or feed water while underway.			F			
MOB 10.5 Receive COD/VOD aircraft.		P	F	P	P	E
III(P), IV(P), IP(P) Augmented by special detail.						
MOB 12 - Maintain the health and well-being of the crew.						
MOB 12.1 Ensure all phases of food service operations are conducted consistent with approved sanitary procedures and standards.	P	F	F	F	F	
I(P) Battle messing only.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
MOB 12.2 Ensure the operation of the potable water system in a manner consistent with approved sanitary procedures and standards.		F	F	F	F	
MOB 12.3 Monitor to ensure the protection of personnel from overexposure to hazardous levels of radiation, temperature, noise, vibration, and toxic substances in accordance with current instructions.	F	F	F	F	F	
k. <u>NONCOMBAT OPERATIONS (NCO)</u>						
NCO 2 - Provide administrative and supply support for own unit.						
NCO 2.1 Provide supply support services.	P	F	F	F	F	
I(P) SK available for emergency issue.						
NCO 2.2 Provide clerical services.		F		F	P	
IP(P) Limited due to personnel ashore.						
NCO 2.3 Provide disbursing services.		F		F	F	
NCO 2.4 Provide post office services.		F		F	P	
IP(P) Limited due to personnel ashore.						
NCO 2.5 Provide messing facilities.	P	F	F	F	F	
I(P) Battle messing only.						

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
NCO 2.6 Provide ships service facilities. IP(P) Limited due to personnel ashore.		F		F	P	
NCO 2.7 Provide inventory and custodial services.		F	F	F	F	
NCO 2.8 Provide personnel for living space maintenance.		F		F	F	
NCO 2.9 Provide personnel for area command security.					F	
NCO 2.11 Provide personnel for fuels support.			F		F	
NCO 2.12 Conduct human resources availability activities and inspections.				F	F	
NCO 3 - Provide upkeep and maintenance of own unit.						
NCO 3.1 Provide organizational level maintenance.		F		F	F	
NCO 3.2 Repair own unit's equipment.		F		F	F	
NCO 4 - Provide closed-circuit television support for own unit.				F	F	
NCO 5 - Conduct meteorological, hydrographic and/or oceanographic collection operations or surveys.						
NCO 5.1 Collect and disseminate meteorological information. I(P), III(P), R(P), IV(P), IP(P) Limited to synoptic reports.	P	P	P	P	P	

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
NCO 5.2 Collect and disseminate hydrographic information. I(P), III(P), R(P), IV(P), IP(P) Limited to synoptic reports.	P	P	P	P	P	
NCO 7 - Special technical research.						
NCO 7.1 Serve as a platform for special technical research operations.				F	F	
NCO 7.2 Conduct special technical research operations.				F	F	
NCO 8 - Serve as a platform for operational test and evaluation of systems, equipment, and tactics.						
NCO 8.1 Provide technical assistance for installed test and evaluation equipments.				F	F	
NCO 8.2 Perform the test and evaluation functions set forth in the appropriate test plans.				F	F	
NCO 8.3 Perform the evaluation functions set forth in appropriate TACMEMOS.				F	F	
NCO 10 - Provide emergency/disaster assistance.						
NCO 10.1 Provide emergency flooding/fire fighting assistance to another unit. I(P) Special detail must be secured. III(P), IV(P) Augmented by special detail.	P	P		P	P	E

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	<u>I</u>	<u>III</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF W</u>
IP(P) Capability reduced due to personnel ashore.						
NCO 10.4 Provide disaster assistance and evacuation.		P		P	P	E
III(P), IV(P), IP(P) Augmented by special detail.						